

1 **WHAT IS CLAIMED IS:**

2 1. A method for finishing a metal article, comprising the steps of:

3 a) placing said article in a vibratory finishing bowl and/or the like, in
4 combination with:

5 i. a chemical solution capable of reacting with the surface of said
6 metal article to convert it to a softer form, and

7 ii. a non-abrasive media

8 b) agitating said article, media, and solution in said finishing bowl for a time
9 sufficient to impart on said article a surface that is superfinished, isotropic,
10 and of specular brightness.

11 2. The method of claim 1, wherein said non-abrasive media are made from a
12 material that includes a plastic.

13 3. The method of claim 1, wherein said non-abrasive media are made from a
14 material that includes alumina bonded with an unsaturated polyester resin.

15 4. The method of claims 1, wherein said non-abrasive media are made from a
16 material that includes a metal.

17 5. The method of claim 1, wherein said non-abrasive media are made from a
18 material that includes stainless steel.

19 6. The method of claim 1, wherein said non-abrasive media are made from a
20 material that includes 302 grade stainless steel.

21 7. The method of claim 1, wherein the surface finish is superior to that produced by
22 non-abrasive ceramic media or other abrasive media.

23 8. An article that is finished using the process of any of claims 1-6.
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